Louisville and Jefferson County
Metropolitan Sewer District

400 South Sixth Street
Louisville, Kentucky 40202-2397

Mail To: P.O. Box 740011
Louisville, Kentucky 40201

502-540-6000

MSD

July 18, 1995

Ms. Liza Montalvo
Residual Project Manager
Kentucky/Tennessee Section
U. S. Environmental Protection Agency
Region IV
345 Courtland Street, N. E.
Atlanta, Georgia 30365

**Re: Report of Field Observation - FY 95, Fourth Quarter (FY95-4Q), Lees Lane Superfund Site, Jefferson County, Kentucky, Administrative Order on Consent, USEPA Docket No. 91-32-C**

Dear Ms. Montalvo:

In accordance with Paragraph 11, under the heading Reporting Requirements, of the subject Consent Order and Attachment 1, Operation and Maintenance Plan For Post-Removal Site Control at the Lees Lane Landfill Site, I am enclosing one (1) copy of the Report of Field Observation (Appendix J), identified as Observation Report No. FY95-4Q, for your information and files.

Please advise if you have any questions concerning the attached Report of Field Observation for FY95-4Q.

Sincerely,

C. A. Neumayer
Director of Operations



CAN/dc
CAN2-2U

Enc.

cc: Kentucky Natural Resource Environment Protection Cabinet
Rick Hogan, Division of Waste Management
Kentucky Natural Resource Environment Protection Cabinet
Mr. Jeff Pratt, Division of Waste Management
G. R. Garner, Executive Director
File WD-2 (Lees Lane M&M Quarterly)

REPORT OF FIELD OBSERVATION
LEE'S LANE LANDFILL SITE, LOUISVILLE, KENTUCKY

Observation Report No: FY95 - 4Q  Date of Observation: 6 / 22/95

Time Arrived Onsite: 9:45 A.M.  Time Departed Site: 11:10 A.M.

Field Personnel: C. A. Neumayer, Director of Operations; R. H. Watkins, Support Services Administrator, Maintenance Division

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Section A: General Site Conditions

| Observation: | Yes* | No | Not Observed | Comment No. |
|---|---|---|---|---|
| 1. Major settlement of topsoil or erosion exposing waste/ fill material | X | | | A-1 |
| 2. Evidence of leachate seepage | | X | | |
| 3. Distressed Vegetation | | X | | |
| 4. Pot holes, erosion of access road | | X | | A-4 |

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Section B: Institutional Controls

| Observation: | Yes* | No | Not Observed | Comment No. |
|---|---|---|---|---|
| 1. Structural problem with Lee's Lane gate or barricade | | X | | |
| 2. Structural problem with Putman Ave. barricade | | X | | B-2 |
| 3. Lee's Lane gate unlocked | X | | | B-3 |
| 4. Broken or missing lock | | X | | |

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Section C: Gas Collection System

| Observation: | Yes* | No | Not Observed | Comment No. |
|---|---|---|---|---|
| 1. Vandalism to blower house, wells, or moisture traps | X | | | C-1 |
| 2. Structural damage to blower house | | X | | C-2 |
| 3. Blower not operating or visible damage | | X | | |
| 4. Blower house not secure and unclean | | X | | |

| Observation: | Yes* | No | Not Observed | Comment No. |
|---|---|---|---|---|
| 5. Service box lids not in place | — | X | — | — |
| 6. Alarm and blower controls not functioning | — | X | — | — |
| 7. Settlement or tilting of well/moisture trap concrete collars | X | — | — | C-7 |
| 8. Well/moisture trap covers missing or damaged | — | X | — | — |
| 9. Excessive vegetation covering wells/mositure traps | — | X | — | — |
| 10. Adjustment valve inaccessible | — | X | — | — |
| 11. Well/moisture trap caps, plugs, and piping missing or damaged | — | X | — | — |
| 12. Blower house and well/ moisture trap signs missing or damaged | X | — | — | C-12 |

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Section D: Groundwater & Gas Monitor Wells

| Observation: | Yes* | No | Not Observed | Comment No. |
|---|---|---|---|---|
| 1. Wells unlocked | — | X | — | — |
| 2. Guard posts and rails missing or damaged | — | X | — | — |
| 3. Protective casing missing, damaged or rusted | — | X | — | — |
| 4. Concrete pads damaged or cracked | — | X | — | — |
| 5. Possible surface water infiltration into wells | — | X | — | — |
| 6. Excessive vegetation or debris around wells | X | — | — | D-6 |
| 7. Well cap missing or damaged | — | X | — | — |
| 8. Tubing, fittings, and valves missing or damaged (gas wells only) | — | — | X | D-8 |

Section E: Bank Protection Controls

| Observation: | Yes* | No | Not Observed | Comment No. |
|---|---|---|---|---|
| 1. Subsidence of slope, sloughing or caving | — | X | — | E-1 |
| 2. Erosion of rip-rap or underlying material | — | — | X | E-2 |
| 3. Abnormally damp areas, wet ground vegetation | X | — | — | E-3 |
| 4. Soft spots in surface | — | X | — | — |
| 5. Seepage, water flow, piping, or sand boils | — | X | — | — |
| 6. Undermining of rip-rap | — | X | — | — |
| 7. Vegetative growth on rip-rap slope | — | X | — | E-7 |
| 8. Buildup of trash and debris on rip-rap | X | — | — | E-8 |
| 9. Exposed trash or filter fabric | — | X | — | — |
| 10. Tilting trees | — | X | — | — |
| 11. Tension cracks | — | X | — | — |
| 12. Survey monuments missing or damaged | — | X | — | — |

Section F: Surface Waste Cleanup/Cover

| Observation: | Yes* | No | Not Observed | Comment No. |
|---|---|---|---|---|
| 1. Swales greater than 1 foot wide and 2 inches deep | — | X | — | F-1 |
| 2. Cracks greater than 1 inch wide and 6 inches deep | — | X | — | — |
| 3. Areas of erosional damage to grass | — | X | — | — |
| 4. Inadequate grass cover (area > 36 $ft^2$ | — | X | — | — |
| 5. Ponded water (area larger than 2 feet in diameter and 3 inches deep) | X | — | — | F-5 |
| 6. Erosion or ponded water greater than 12 inches deep (requires immediate repair) | — | X | — | — |

* If yes, assign a comment no. in the last column and follow instructions on comment sheet.

REPORT OF FIELD OBSERVATION
LEE'S LANE LANDFILL SITE, LOUISVILLE, KENTUCKY

Observation Report No. FY95-4Q Date of Observation 6/22/95

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Site Map

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Signature of Observer: [signature] Date: 7/18/95

# REPORT OF FIELD OBSERVATION
# LEE'S LANE LANDFILL SITE, LOUISVILLE, KENTUCKY

**Observation Report No.: FY95-4Q** **Date of Observation: 6/22/95**

Instruction: If any item is checked yes, provide details of the problem and maintenance recommendations below and indicate the location of deficiency on the site map provided.

| Comment No.: | Comment |
|---|---|
| A-1 | Observed evidence of continued damage to the Louisville/Southwest Jefferson County earthen levee caused by ATVs and trail bikes. Erosion of earthen levee surfaces is localized but severe. Noted minimal evidence of damage to the clay cap area of the landfill site by ATVs or trail bikes. Observed water standing in depressed rutted area adjacent to gas Well No. 6 which needs placement of additional field material. |
| A-4 | No noticeable change in access road conditions. Small amount of water standing in one pot hole following an early morning rain. |
| B-2 | Condition of Putman Avenue barricade is unchanged from previous quarterly inspections. Security cable installed by MSD forces continues to restrict unauthorized entry to the landfill site from adjacent residential properties at the end of Putman Avenue. Solid waste dumping along the barricaded portion of Putman Avenue extending back toward the earthen levee appears unchanged from prior quarterly inspection. Heavy vegetation growth along the access road will require cutting with bush hog or tiger mower. |

| Comment No. | Corrective Action Performed |
|---|---|
| A-1 | No further corrective action required at this time pending meeting with U. S. Army Corps of Engineers, Louisville District, to discuss control of trespassing on the Louisville/Southwest Jefferson County Flood Protection Works. |
| A-4 | No further correction is required at this time. |
| B-2 | No further corrective action required at this time except for cutting back of vegetation along the access road prior to end of FY 96-2Q. Continued monitoring of the barricade and surrounding areas will be conducted at subsequent quarterly institutional inspections. |

| Comment No.: | Comment |
|---|---|
| B-3 | Lees Lane gate unlocked because MSD Urban Area crews were servicing the Upper Mill Creek Flood Pumping Plant and gas collection system Blower House. |
| C-1 | Observed additional amount of small arms fire damage to the concrete walls of the Blower House and warning signs. The small arms fire damage was noted to the north, east and the south faces of the Blower House. |
| C-2 | Observed heavy growth of vegetation type vines and trees adjacent to the west face of the Blower House. |
| C-7 | Observed damaged gas collection well and moisture trap concrete collars at Gas Collection Wells No. 7, 13, and 15. This damage has been previously reported and should be corrected as part of the investigation into the conditions of the vacuum collection gas well field piping systems, see comment C-11. |

| Comment No. | Corrective Action Performed |
|---|---|
| B-3 | No corrective action required at this time. |
| C-1 | No further corrective action proposed at this time to correct damage to the concrete block walls of the Blower House by small arms fire. Continue to monitor damage condition at subsequent quarterly institutional inspections and schedule repairs to the concrete block wall of the Blower House as needed. |
| C-2 | Schedule removal of heavy growth vines on the face of the Blower House and adjacent trees prior to the end of FY 96-2Q. |
| C-7 | Damage to gas collection well and moisture trap concrete collars should be repaired as part of the investigation into the conditions of the vacuum collection well gas field piping systems, see Comment C-11. |

| Comment No.: | Comment |
|---|---|
| C-11 | Investigation of vacuum conditions of the gas well field piping system between Wells No. 1 and 14, inclusive, remain to be completed. Investigation of vacuum conditions subject to manpower availability and scheduling arrangements between MSD Urban Area Maintenance Section and Maintenance Division, Wastewater Repair Department. |
| C-12 | Observed that small arms fire has damaged all of the high voltage warning signs on the Blower House. |
| D-6 | Observed some excessive vegetation growth inside the barriers protecting the groundwater monitoring wells. |
| D-7 | Continue to observe same damage to the steel hinge and cap on groundwater Well No. 5 previously reported. |

| Comment No. | Corrective Action Performed |
|---|---|
| C-11 | Unable to schedule vacuum testing of selected areas in the gas well collection system to determine those gas collection wells not functioning properly because of manpower limitations and commitments to flood protection facility manning during high water on the Ohio River during May, 1995. Depending on work force availability and weather conditions, testing and exploration work should be scheduled for performance before the end of FY 96-2Q. |
| C-12 | Damaged high voltage warning signs affixed to the north, south, and east faces of the Blower House should be replaced prior to the end of FY 96-1Q. |
| D-6 | Excessive vegetation growth inside barriers protecting the groundwater wells will be cut by mowing contractor or MSD force account prior to the end of FY 96-2Q. |
| D-7 | No corrective action required at this time. |

| Comment No.: | Comment |
|---|---|
| D-8 | Unable to observe tubing, fittings and valves on gas monitoring wells because all security locks were in place. Condition of tubing and fittings will be examined during quarterly field monitoring activities to be conducted on or about June 28, 1995 by MSD and Radian Associates. |
| E-1 | Observation of riprap monuments did not indicate any vertical or horizontal slope movement. |
| E-2 | Unable to observe any erosion of riprap or underlying river bank material because of extensive vegetable growth which continues to stabilize the river bank. |
| E-3 | Observed standing water in minor depression area located approximately 50 feet south of Benchmark No. 4, immediately west of the access road in the vicinity of the shale drainage swale. |
| E-7 | Observed that vegetative growth on the riprap slope and adjacent drainage areas had been sprayed by an independent contractor engaged by MSD. This spraying of growth in the riprap has effectively controlled unwanted vegetation growth. |

| Comment No. | Corrective Action Performed |
|---|---|
| D-8 | No corrective action required at this time because Radian Associates and MSD force account did not experience any difficulty in the condition of tubing and fittings during the quarterly field monitoring activities conducted on or about June 28, 1995. |
| E-1 | Continue to observe riprap monuments during subsequent quarterly institutional inspections for any horizontal slope movement. |
| E-2 | No further action required at this time. Vegetation growth below the bottom of the riprap section adjacent to the Ohio River continues to provide bank stability and avoid the scouring action under high water conditions on the Ohio River. |
| E3 | Correct depression area south of Benchmark No. 4 by filling with spoil earth material, see Comment F-5. |
| E-7 | No further corrective action required at this time. A second spraying of vegetative growth on the riprap sections should be scheduled for FY 96-2Q. |

| Comment No.: | Comment |
|---|---|
| E-8 | Observed debris deposited by high Ohio River water levels on the riprap section of the clay bank remains about the same as previous quarterly inspections. |
| E-12 | Observed that steel post markers for location of riprap monuments have been installed to replace those previously reported as missing. |
| F-1 | Observed the shale drainage swale between the clay cap access road and the top of the riprap section which appears to be in satisfactory condition with no evidence of erosion or standing water. |
| F-5 | Following an early morning rain. observed the minor depressed area south of Benchmark No. 4 contained ponded water approximately 10 feet by 15 feet in plan with an average depth of approximately 3 inches. |

| Comment No. | Corrective Action Performed |
|---|---|
| E-8 | No corrective action proposed at this time to remove drift from the riprap section. |
| E-12 | No corrective action required at this time. |
| F-1 | Continue to monitor shale drainage swale at quarterly institutional inspections for any significant evidence of erosion or standing water. |
| F-5 | Schedule placement of additional earth fill material to eliminate the depressed area approximately 50 feet south of Benchmark No. 4 and immediately west of the access road in the vicinity of the shale drainage swale. Estimate filling an overall area of approximately 20 by 40 feet. Filling of the depressed area will be scheduled during FY 96-1Q and 2Q based on spoil availability from MSD Maintenance Division force account repair sites. |